Light PowerPoint: A quick refresher

Slide one: What is Light?

1. Define: Light, Photon and Ray
2. Explain how light travels

Slide Two: How do Light Waves Travel?

1. Define Transverse Wave
2. Create a labeled diagram of a transverse wave
3. Identify the 4 properties of all waves

Slide Three: What are Sources of Light?

1. Define each of these terms: Illuminated, luminous, opaque, translucent, transparent
2. Find three images of examples for each term`

Slide Four: How Do You See?

1. Diagram and Identify the parts of the Eye
2. Describe how the eye sees light and makes images
3. Identify an ailment of the eye and how it is treated

Slide Five: What is Color?

1. Describe how a prism forms a visible spectrum
2. Diagram the visible spectrum, identify the colors present and the wavelength of each color
3. Explain why different objects have different colors

Slide Six: What is Photosynthesis?

1. Explain how plants use energy from the sun to make food
2. Include the chemical formula for photosynthesis
3. Include a picture or diagram of chlorophyll

Slide Seven: How do Mirrors Reflect Light?

1. Describe how mirrors form clear images
2. Define and give an example of: diffuse reflection, regular reflection

Slide Eight: How do Lenses Refract Light?

1. Contrast how light rays are bent by a concave and convex lenses
2. Diagram the light rays and their focal points passing through both a convex and a concave lense

Slide Nine: What is the Electromagnetic Spectrum?

1. Identify the parts of the electromagnetic spectrum
2. Diagram and label the electromagnetic spectrum; include wavelength and examples of items in each wavelength

Slide ten: What are Lasers?

1. Define Laser
2. Identify the light that makes up a laser
3. Explain the uses of lasers